

Title (en)
OXIDATIVE DISSOLUTION OF GALLIUM ARSENIDE AND SEPARATION OF GALLIUM FROM ARSENIC

Publication
EP 0283740 A3 19890531 (EN)

Application
EP 88102624 A 19880223

Priority
US 1811087 A 19870224

Abstract (en)
[origin: EP0283740A2] Gallium is recovered from gallium arsenide by reacting and dissolving the gallium arsenide with an oxidant and a complexing agent, especially with water insoluble hydroxamic acids with mild conditions, e.g. with aqueous hydrogen peroxide and mild temperature, to effect separation of gallium hydroxamic acid chelates from water soluble arsenic compounds.

IPC 1-7
C22B 3/00; **C22B 58/00**; **C01G 15/00**

IPC 8 full level
C01G 15/00 (2006.01); **C01G 28/00** (2006.01); **C07F 5/00** (2006.01); **C22B 3/00** (2006.01); **C22B 3/16** (2006.01); **C22B 58/00** (2006.01)

CPC (source: EP KR US)
C01G 15/00 (2013.01 - KR); **C01G 15/003** (2013.01 - EP US); **C01G 28/005** (2013.01 - EP US); **C07F 5/003** (2013.01 - EP US); **C22B 3/165** (2013.01 - EP US); **Y02P 10/20** (2015.11 - EP US)

Citation (search report)

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AT BE CH DE ES FR GB GR IT LI LU NL SE

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